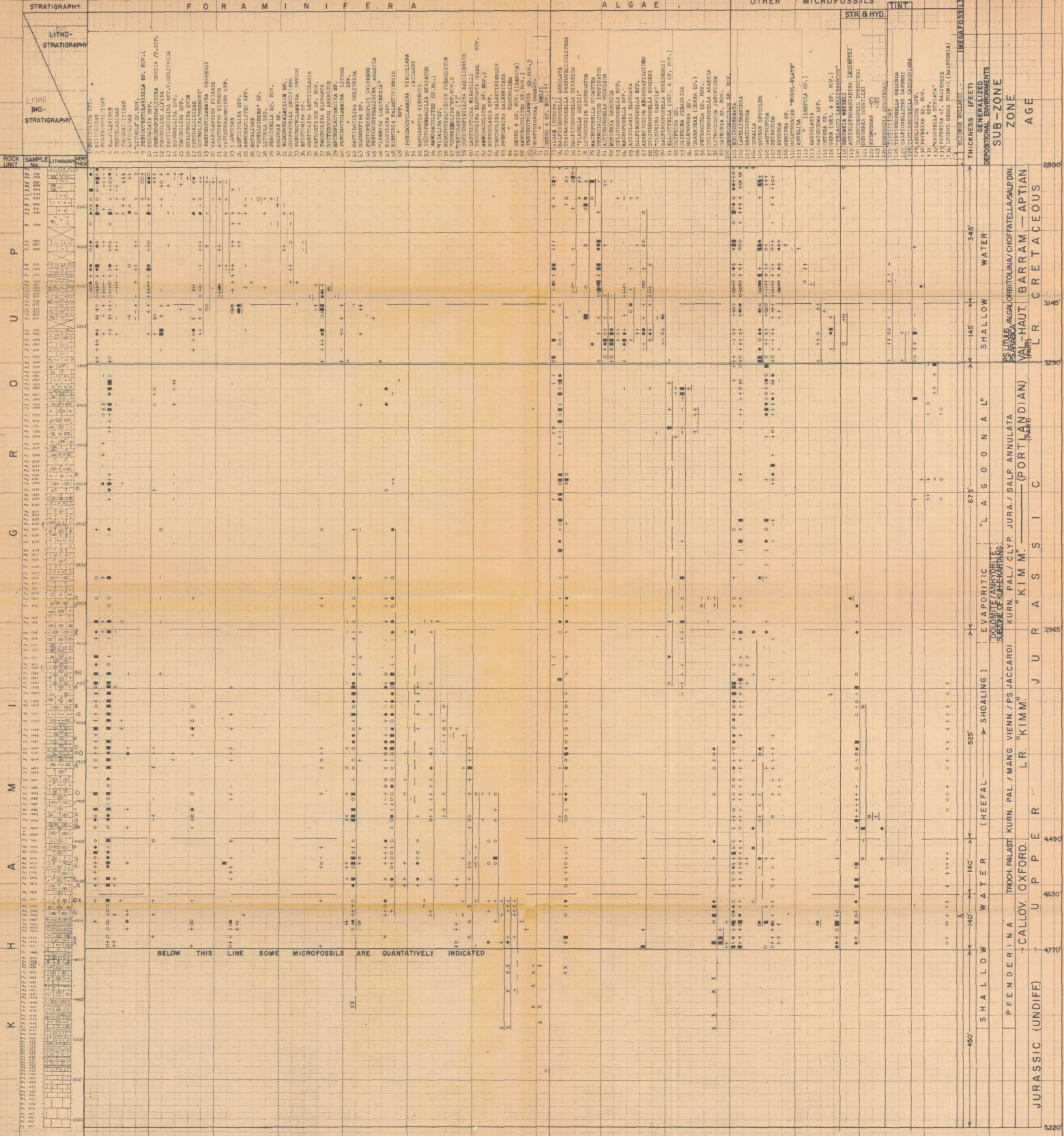






② KUH-E NAMAK



BELOW THIS LINE SOME MICROFOSSILS ARE QUANTITATIVELY INDICATED

JURASSIC (UNDIFF) 4770

PEPPERINA 4630

TRIOCH PALAST 4490

SHALLOW WATER (REEFAL) 525

EVAPORITIC (ANHYDRITE) 675

"LAGOONAL" 145

SHALLOW WATER 340

DEPOSITED 2800

THICKNESS (FEET) 2800

MEGAFOSILS

STR & HYD

OTHER MICROFOSSILS

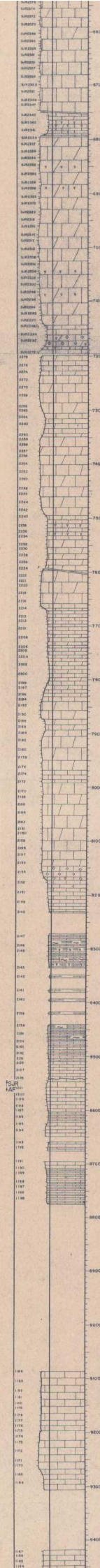
ALGAE

FORAMINIFERA

LITHO-STRATIGRAPHY

STRATIGRAPHY





8400 Brown, massive, recrystallized unbedded limestone.

8300 In recrystallized or finely crystalline dolomite. Some beds are cherty. Very strongly and irregularly bedded. Some cherty beds and spots of calcite. Spots of largely recrystallized chert.

8200 Brown, recrystallized, or finely crystalline dolomite, slightly foliated, thick and poorly bedded argill limestone.

8100 (Algae of dark brown, finely crystalline limestones according to differential weathering.

8000 Brown, dolomitic, recrystallized, foliated unbedded limestone.

7900 Argill limestone (Algae appear as spots of dark brown finely crystalline limestone).

7800 Brown, dolomitic, recrystallized foliated unbedded, locally subbedded limestone.

7700 Grey brown, recrystallized, slightly foliated in thin to yellowish, finely crystalline, locally grey brown dolomite, finely crystalline, slightly and irregularly bedded. A cherty bed.

7600 Brown, recrystallized, slightly dolomitic, massive, poorly medium bedded limestone.

7500 Brown, recrystallized, slightly dolomitic and foliated, very thick and poorly bedded in, One cherty bed.

7400 Brown, recrystallized, slightly dolomitic and foliated, poorly bedded limestone.

7300 Brown, massive, recrystallized, very dolomitic, slightly foliated, very thick and poorly bedded limestone.

7200 Brown, recrystallized, slightly dolomitic, medium bedded limestone. Two cherty beds.

7100 Brown, dolomitic, recrystallized, slightly foliated, poorly bedded limestone.

7000 Brown, massive, recrystallized, more or less dolomitic and foliated unbedded limestone.

6900 Light brown to dark brown, more or less dolomitic, poorly and medium bedded, slightly foliated limestone. Average thickness of beds - 1 to 2 ft.

6800 Brown dolomitic, massive, very thick and poorly bedded limestone.

6700 Light brown, dolomitic, recrystallized, well-bedded limestone.

6600 Tan brown, dolomitic, massive, very thick and poorly bedded limestone.

6500 Brown, massive, recrystallized, foliated limestone, locally well-bedded.

6400 Brown to dark brown, dolomitic, massive, very thick and poorly bedded limestone.

6300 Dark grey, recrystallized, massive, slightly Black, dolomite, intercalated, foliated in. Brown, very strongly bedded limestone.

6200 Light brown, marly, foliated, more or less bedded limestone.

6100 Light brown, marly, cherty, slightly foliated limestone.

6000 Whittish, chalky, marly, foliated, very thin-bedded limestone. Obscured by silt.

5900 Light brown, foliated, marly, very thin bedded limestone. Some cherty beds and slumped beds.

5800 Obscured by silt.

5700 Light brown, foliated, marly, very thin bedded. Obscured by silt.

5600 Light brown, foliated, marly, very thin bedded. Obscured by silt.

5500 Light brown, foliated, marly, very thin bedded. Obscured by silt.

5400 Very thin bedded limestone, alternating marly brown or (polytitanous) black. Numerous slumped beds.

5300 Black (polytitanous) foliated, very thin-bedded in.

5200 Dark grey, foliated, laminated limestone. Ferrous green cherty beds.

5100 Black, foliated, poorly bedded, brecciated in.

5000 Light brown, foliated, poorly bedded laminated in.

4900 Dark, massive, very foliated in, with undulating Pale grey, recrystallized in, bedded.

4800 Black or dark grey, recrystallized, limestone.

4700 Grey, thin bedded, recrystallized, limestone.

4600 Black, thin bedded, recrystallized, limestone.

4500 Black or dark grey, recrystallized in.

4400 Obscured by silt.

4300 Dark grey, recrystallized, limestone.

4200 Obscured by silt.

4100 Grey, recrystallized limestone.

4000 Black or dark grey, recrystallized, siliceous in.

3900 Pale grey, marly, silty limestone.

3800 Thin bedded, dark grey, siliceous limestone.

3700 Obscured by silt.

3600 Obscured by silt.

3500 Grey, recrystallized limestone.

3400 Dark grey, recrystallized, siliceous limestone.

3300 Brownish grey, recrystallized, siliceous in.

3200 Dark grey, recrystallized, siliceous limestone.

3100 Grey, recrystallized, locally with calcitic inclusions.

3000 Pale grey, recrystallized limestone.

2900 Grey and pale grey, recrystallized limestone.

2800 Brownish grey and pale brown, recrystallized limestone.

2700 Obscured by silt.

2600 Brownish grey and pale brown, recrystallized limestone.

2500 Obscured by silt.

2400 Brownish grey and pale brown, recrystallized limestone.

2300 Obscured by silt.

2200 Brownish grey and pale brown, recrystallized limestone.

2100 Obscured by silt.

2000 Brownish grey and pale brown, recrystallized limestone.

1900 Obscured by silt.

1800 Brownish grey and pale brown, recrystallized limestone.

1700 Obscured by silt.

1600 Brownish grey and pale brown, recrystallized limestone.

1500 Obscured by silt.

1400 Brownish grey and pale brown, recrystallized limestone.

1300 Obscured by silt.

1200 Brownish grey and pale brown, recrystallized limestone.

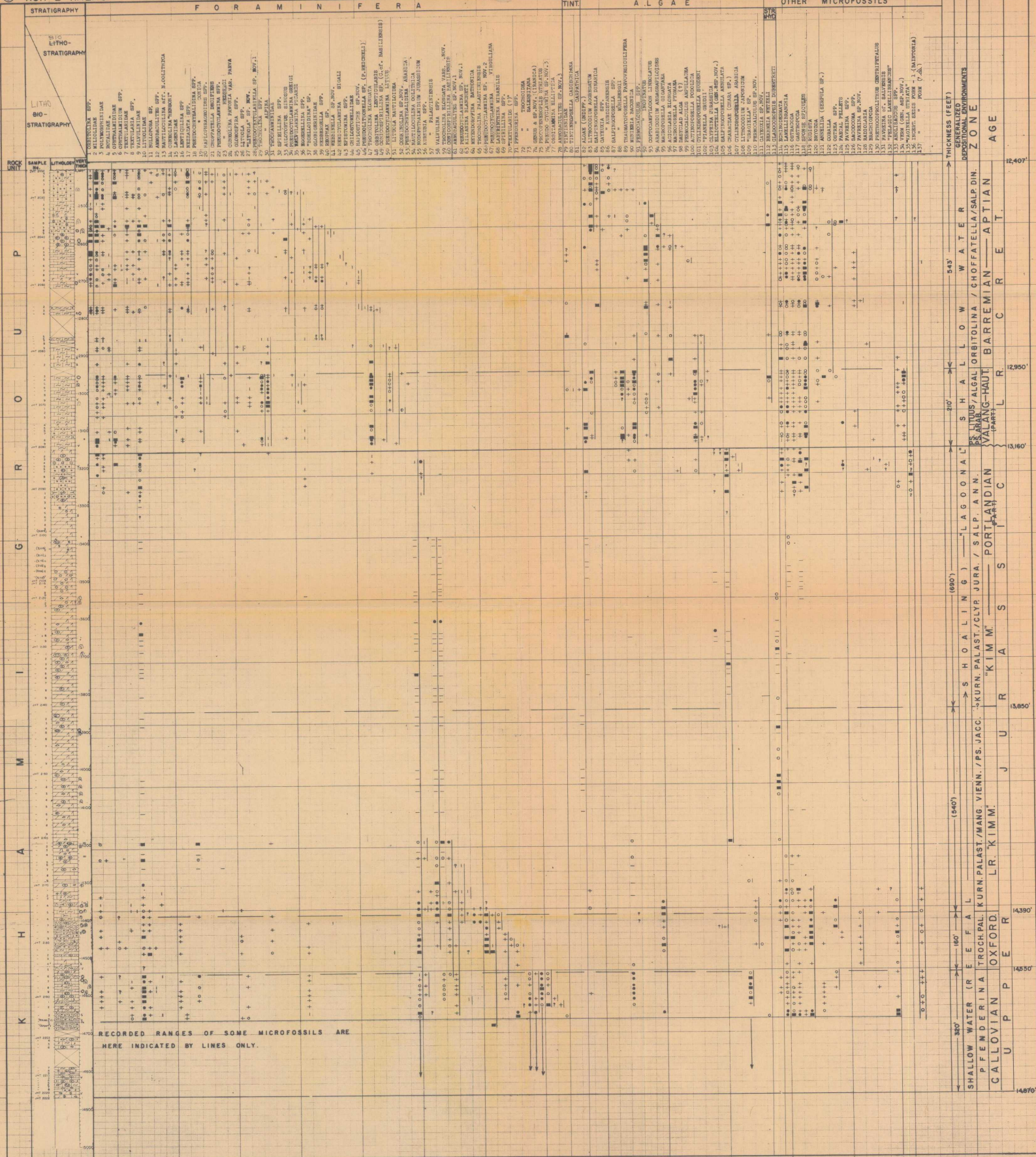
1100 Obscured by silt.

1000 Brownish grey and pale brown, recrystallized limestone.

KHAM  
BERIASSELLA  
SHALES  
LIMESTONE



# 3 KUH-E KALAGH



A MICROPALAEONTOLOGICAL STUDY OF THE UPPER JURASSIC & LOWER CRETACEOUS OF SOUTHERN IRAN

Microfossil Distribution - Abundance Chart

Strat. Sect. No. 3 KUH-E KALAGH

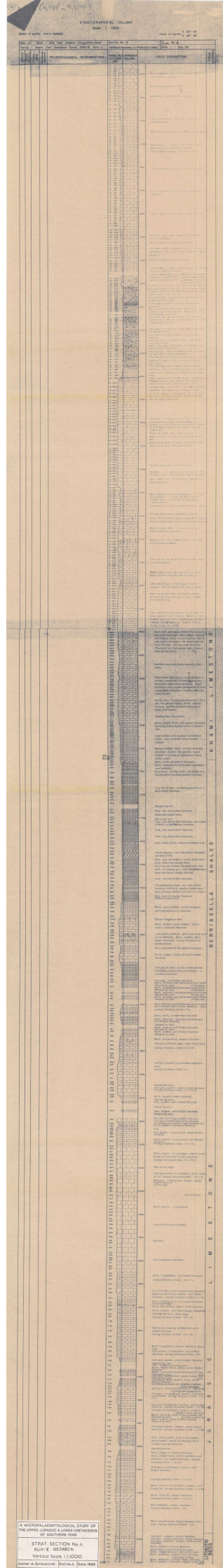
VERTICAL SCALE 1:1000

A. Gollanesh Encl. No. 3 1965









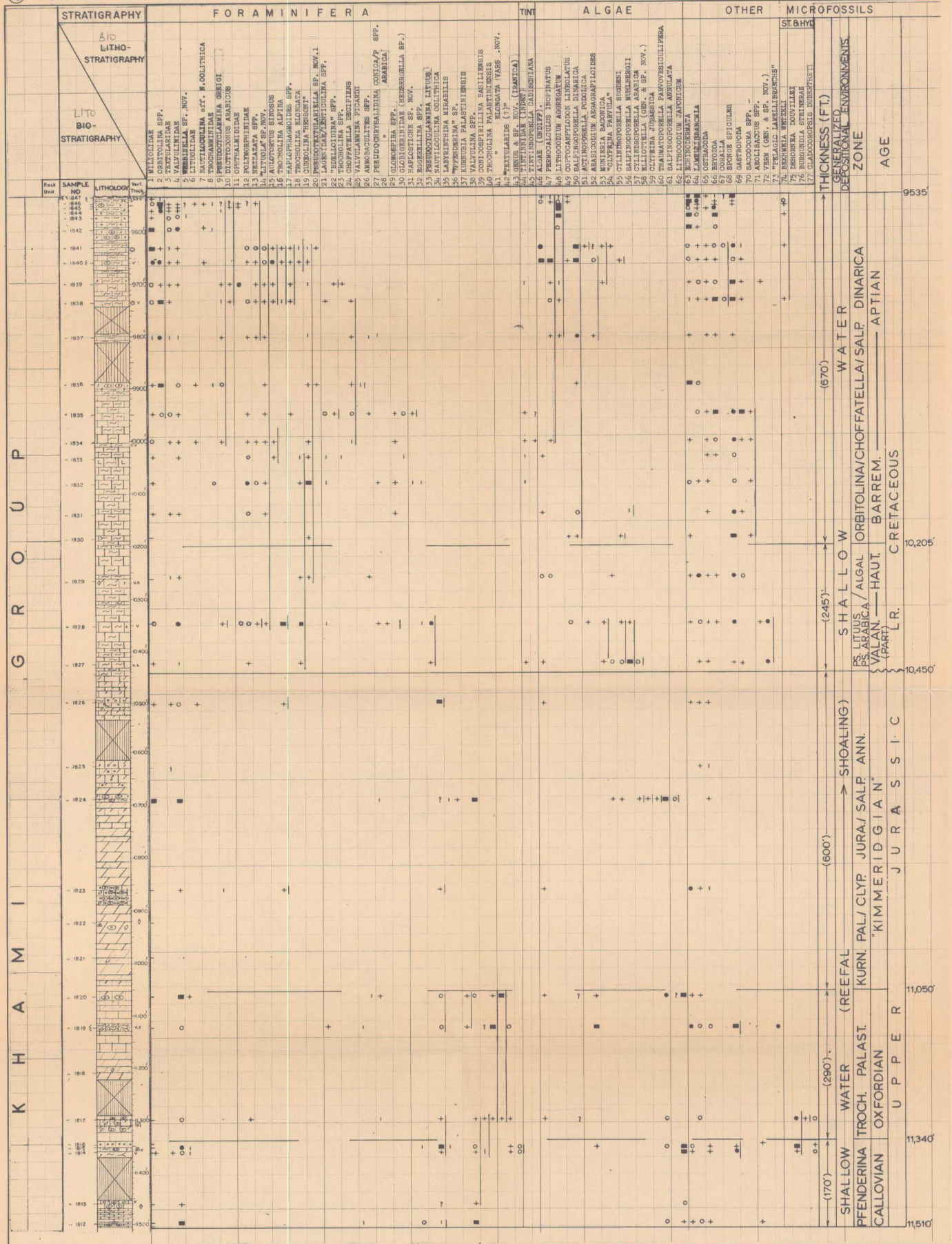


This image shows a page from a technical document, likely a patent or a scientific paper, featuring a large grid of small, repeating symbols (possibly a barcode or a data matrix) arranged in a structured pattern. The symbols are organized into rows and columns, with some sections containing larger, more complex diagrams or text blocks. The overall layout is highly structured and repetitive, suggesting a data-driven or technical context.



A MICROPALAEONTOLOGICAL  
UPPER JURASSIC  
OF  
Microfossil D  
Strat. Sect. N  
VER  
A. Gollesstaneh





A MICROPALAEONTOLOGICAL STUDY OF THE  
UPPER JURASSIC & LOWER CRETACEOUS  
OF SOUTHERN IRAN

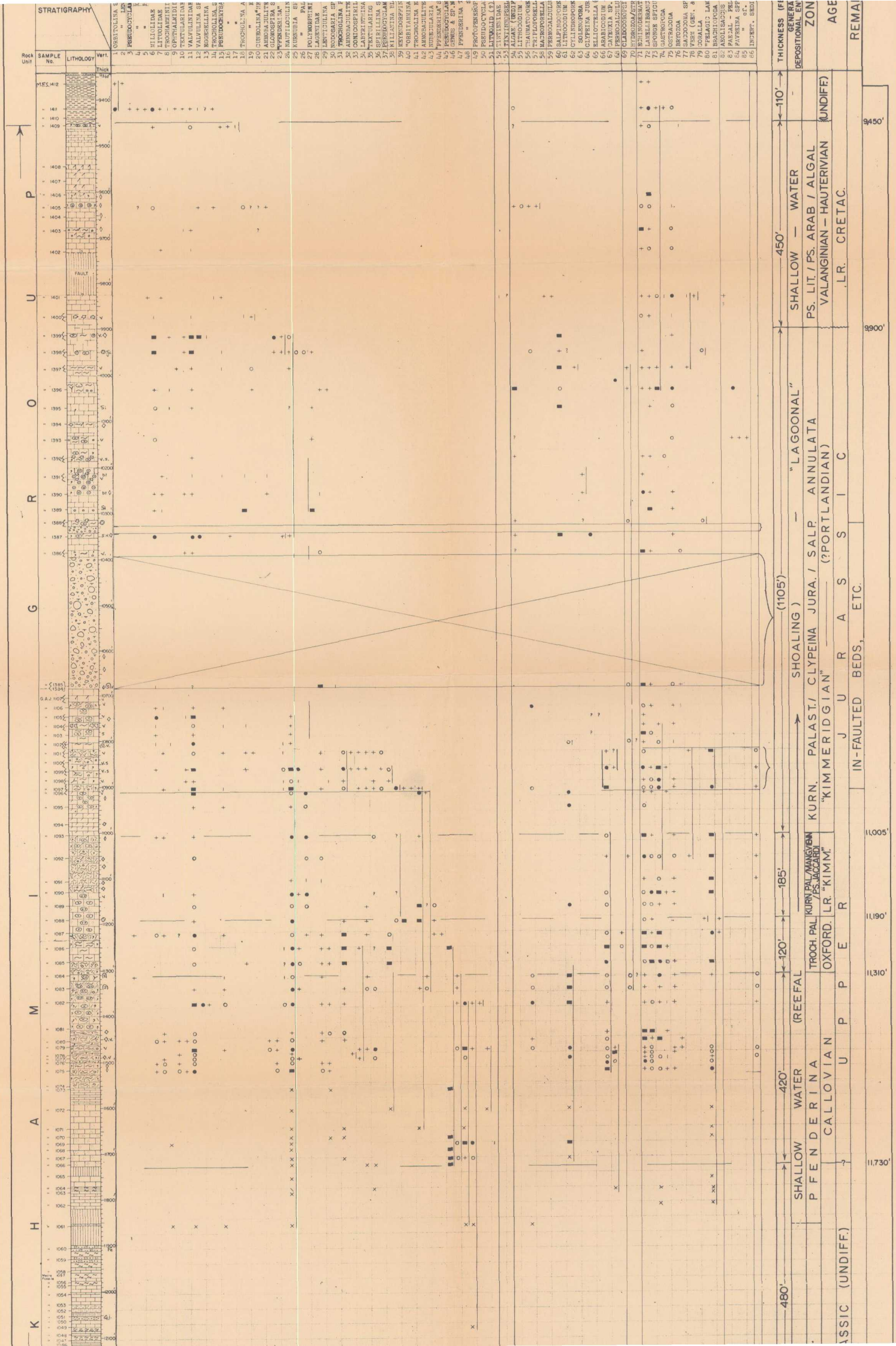
Microfossil Distribution - Abundance Chart  
Strat. Sect. No. 10 KUH-E QALEH SHUR  
VERTICAL SCALE 1:1000

A. Gholiassaneh Encl. No. 10 1965



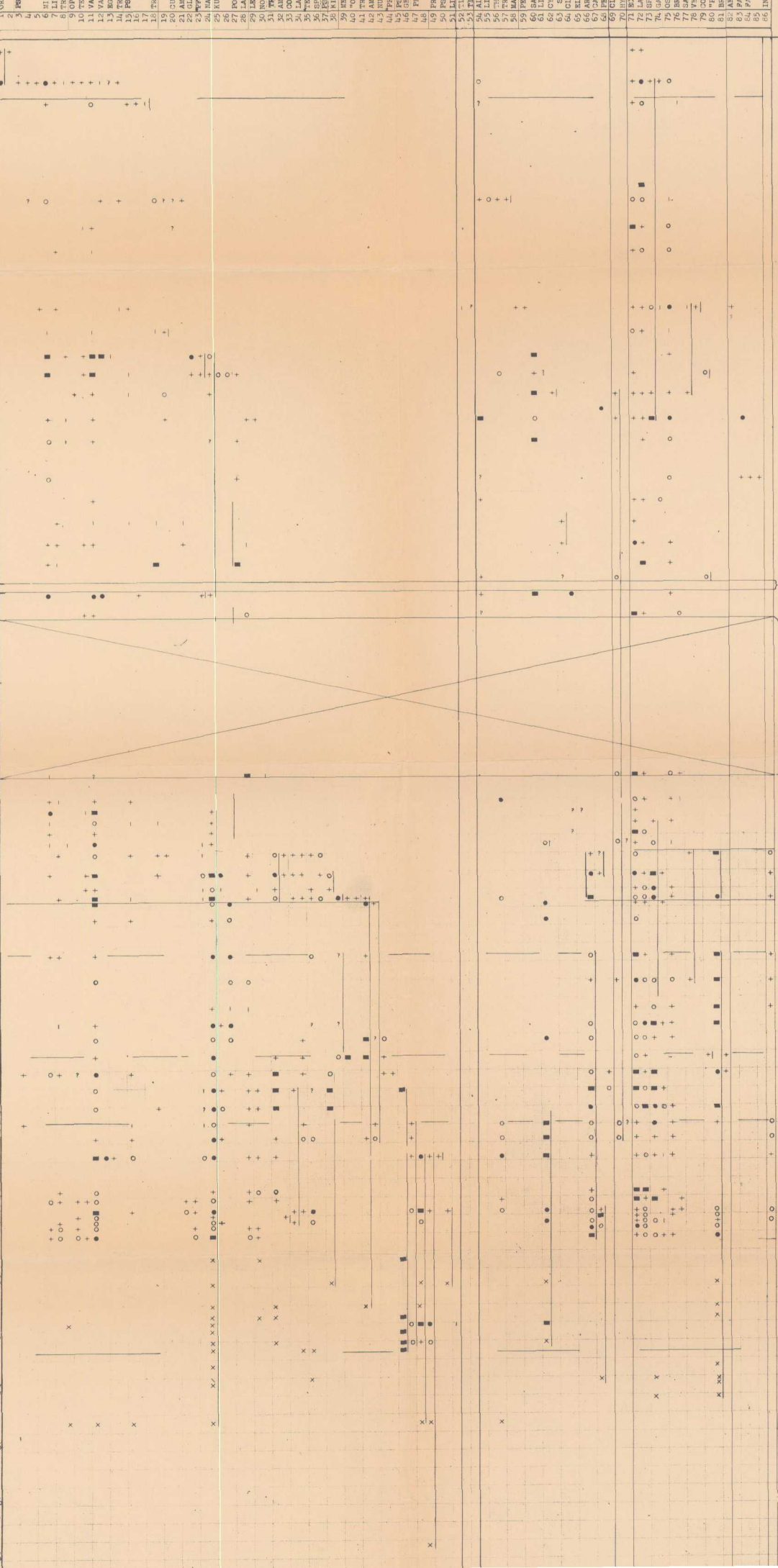






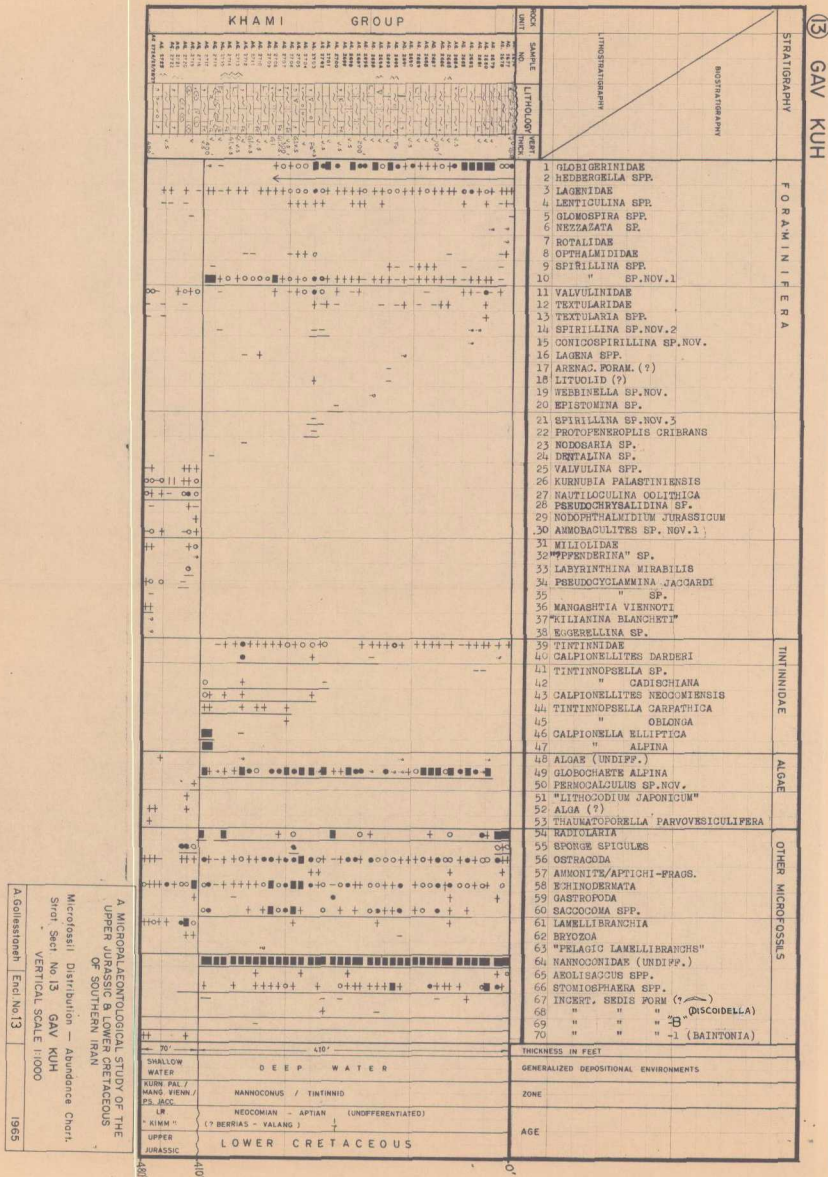
STRATIGRAPHY

Rock Unit  
SAMPLE No.  
LITHOLOGY  
Thick  
11730'  
11900'  
11905'  
11900'  
11890'  
11880'  
11870'  
11860'  
11850'  
11840'  
11830'  
11820'  
11810'  
11800'  
11790'  
11780'  
11770'  
11760'  
11750'  
11740'  
11730'



THICKNESS (FT)	GENERAL DEPOSITIONAL ENV.	AGE	REMARKS
480'	SHALLOW WATER	CLASSIC (UNDIFF.)	
420'	WATER	PENDERINA	
120'	REEFAL	OXFORD LR. "KIMM."	
185'	SHOALING	TROCH. PAL. "KIMM."	
1105'	"LAGOONAL"	KURN. PALAST/ CLYPEINA JURA. / SALT ANNULATA	
450'	SHALLOW - WATER	PS. LIT. / PS. ARAB / ALGAL	
110'		VALANGINIAN - HAUTERIVIAN (UNDIFF.)	
		L.R. CRETAC.	
		IN-FAULTED BEDS, ETC.	
			9450'



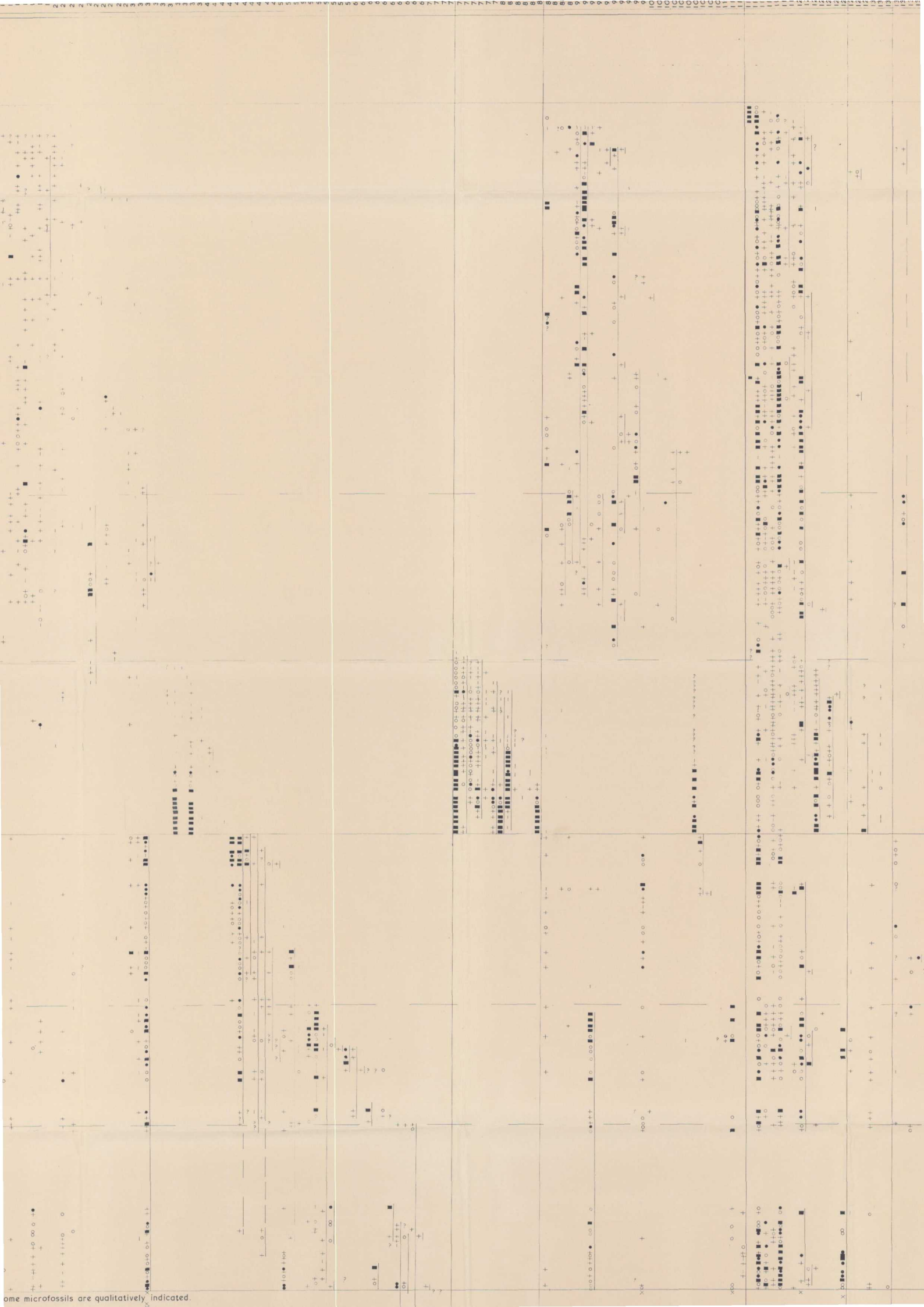


Below this line some microfossils are qualitatively indicated











## STRATIGRAPHICAL SECTION

Scale = 1:1000

Name of Section Tang-e Dorbest (Upper)  
Kush Kuh (North Flank)

Map ref.			Section No. M.F.S. 16		Encl. 17	
Survey: BANDAR ABBAS HINTERLAND 1957-58			Author: M. F. SHEPHERD		Date: Nov. 1957	
AGE	FOSSIL ZONE	PALAEONTOLOGICAL DETERMINATIONS	SAMPLE No.	Lithological COLUMN	FIELD DESCRIPTION	
			M.F.S. 24-3	0	Lst. dk. g. with g. s. base thin bed. 1st. layer	
			" 2412			
			" 2411		Mass. g. with gm. sh. (Cretaceous sp. Act. w. sh. bed. 1st. thin bed.	
			" 2410			
			" 2409	100		
			" 2408		Lst. g. with g. w. bed. dense.	
			" 2407			
				200	Scarcely observed soft with interbed.	
				300		
			" 2406		Lst. g. with dk. s. bed. w. bed.	
			" 2405			
				400	Observed by float.	
			" 2404		Lst. li. g. with g. dense. w. bed.	
				500	Observed by float.	
			" 2403		Lst. li. g. with g. dense. thin bed.	
			" 2402		Lst. li. g. with gm. dense thin bed. (partly) (interbed)	
			" 2401		Lst. li. g. with g. mass. (calc. nod.) and a sh. bed.	
			" 2399			
			" 2398			
			" 2397	600	Lst. dk. with dk. g. dense. bed. apert. thin bed. (oil smell).	
			" 2396			
			" 2395			
			" 2394			
			" 2393		Lst. g. s. bk. with dk. g. v. dense. apert. w. bed. (oil smell).	
			" 2392			
			" 2391			
			" 2390	700	Lst. g. with g. sh. bed. veg. good oil smell.	
			" 2389			
			" 2388			
			" 2387			
			" 2386			
			" 2385		Lst. dk. g. s. bk. dense. w. bed. good oil smell.	
			" 2384		1' (mass. form. Conglomer. 3' from top) 1st.	
			" 2383		Lst. dk. g. sh. oil smell.	
			" 2382			
			" 2381		Lst. ml. g. v. bed. lam.	
			" 2380		Lst. dk. g. sh. bed. (oil smell)	
				900		
					Unconformable vertical rock face of limestone (From 2375 - 2380, 1' bed. high)	
				1000		
			" 2379			
			" 2378			
			" 2377	1100	Lst. dk. g. s. bk. with g. dense. apert. w. bed. (oil smell) w. one (sh. bed. 1st. 1st.)	
			" 2376			
			" 2375			
				1200	Observed by rock	
			" 2374		Lst. dk. g. sh. (partly) - sh. bed. w. 1' dk. red g. sh.	
			" 2373		Lst. at top w. apert. worm markings.	
			" 2372		Mass. li. g. (buff w. bed. 1st. 1st.)	
			" 2371	1300	Lst. s. g.	
			" 2370			
			" 2369		Lst. g. s. bk. with dk. g. s. g. dense. apert. w. bed. (oil smell).	
			" 2368			
			" 2367			
			" 2366			
			" 2365		Del. 1st. bed. (oil)	
			" 2364	1400	Del. ml. g. w. bed. w. porous orange chertified sand.	
			" 2363		Del. dk. g. w. bed. w. calc. nod. & con.	
			" 2362		Del. 1st. dk. g.	
			" 2361		Del. 1st. dk. g. v. nod. (oil smell)	
			" 2360		Conglomer. Del. dk. g. v. nod.	
			" 2359	1500	Del. 1st. g. with g. w. one (2') low gm. sh. bed. (oil smell) (sedimentary) buff. sh. bed.	
			" 2358		Mass. g. with g. red & yl. ch. (oil smell)	
			" 2357		Observed - poss. Al.	
			" 2356			
			" 2355			
			" 2354	1600	Del. 1st. li. g. with li. g. / ps. w. bed.	
			" 2353			
			" 2352		Del. dk. g. w. bed.	
				1700		
			" 2351		Del. dk. g. / bk. thin bed. oil smell.	
			" 2350		Del. 1st. g. w. bed.	
				1800		
			" 2349			
			" 2348			
			" 2347		Lst. 1st. g. s. bk. bed. apert. sh. s. thin bed. w. one Conglomer. (1st. near top, oil smelling).	
			" 2346			
			" 2345			
			" 2344	1900		
			" 2343		Del. s. thin bed.	
			" 2342		Lst. dk. g. with g. s. bk. & honey.	
			" 2341		Del. dk. g. with g. s. bk. & apert. sh. s. thin bed. oil smell.	
			" 2340			
			" 2339			
			" 2338			
			" 2337			
			" 2336			
			" 2335		Del. & del. 1st. dk. g. with g. s. bk. & apert. sh. bed. good oil smell.	
			" 2334			
			" 2333			
			" 2332			
			" 2331			
			" 2330			
			" 2329	2000		

A MICROPALAEONTOLOGICAL STUDY OF THE UPPER JURASSIC & LOWER CRETACEOUS OF SOUTHERN IRAN

STRAT. SECTION No. 17

A MICROPALAEONTOLOGICAL STUDY OF  
THE UPPER JURASSIC & LOWER CRETACEOUS  
OF SOUTHERN IRANSTRAT. SECTION No. 17  
KHUSH KUH (N. FLANK)

Vertical Scale 1/1000

Author: A. Gollesstaneh Encl. No. 17 Date: 1965







MICROFOSSILS RECORDED IN THE KHAMI GROUP (JURASSIC - LOWER CRETACEOUS) OF SOUTHERN IRAN

ILLUSTRATION PLATE  
NUMBERS

TIME UNITS

BIOSTRATIGRAPHICAL ZONES

ROCK UNIT

GENUS

SPECIES

AUTHOR & DATE

1 ORBITOLINA SPP

2 NODOPHTHALMIDUM SP NOV.

4.5 PSEUDOCYCLAMMINA CUNEOLINA

6 PS. CHRYSALIDINA (DUKHANIA) SPP

7 NEZZATA SPP

8-11 AULOTORTUS SINUSUS

12 TROCHOLINA ALPINA

13-14 HAPLOPHRAGMOIDES PERSICA

15 AMMOBACULITES AURICULARIS

16 PSEUDOCYCLAMMINA GRIGII

17-18 CHOFFATELLA DECIPENS

19-23 PSEUDOCYCLAMMINA BARNARDI

24 CUNEOLINA PAVONIA DORR VAR PAVONIA

25-27 OVULVIFOLIA OVUM

28 HEMICYCLAMMINA SIGILLI

29 WEBBINELLA INCURVATA

30 TROCHOLINA ELONGATA

31 HEMBERGELLA SPP

32 COCKINOLINA THOMPSONI

33-34 PS. CHRYSALIDINA (DUKHANIA) ARABICA

35-36 PSEUDOCYCLAMMINA LITUIUS

37 CONICOSPIRILLINA ARABICUS

38 EPISTOMIA JAMESI

39 PRAEALVEOLINA SPP

40 HAPLOPHRAGMOIDES SPP

41 SPIRILLINA MCQUILLANI

42 VALVULAMMINA PICARDI

43 LITUIOLA NAUTILODEA

44-46 HAPLOSTICHIA SPP

47 NAUTILICULINA MÖHLER, 1938

48 PSEUDOCYCLAMMINA REICHEL

49 LITHOCODIUM AGGREGATUM

50-51 SALPINGOPORELLA DINARICA

52 CAVEUTA INOPINATENSIS

53 THAUMATOPORELLA PARVOVESICULIFERA

54 MACROPORELLA GIGANTEA

55 PERMOACALCULUS INOPINATUS

56 SALPINGOPORELLA MÜHLBERGERI

57 ACICULARIA ELONGATA

58-60 MUNIERIA BACONICA

61 PLANELLA GRIGII

62 COPTOCAMPYLODON LINEOLATUS

63 CYLINDROPORELLA SUGDENI

64 ARABICODIUM AEGAGRAPOIDES

65-67 IRANELLA INOPINATA

68-69 SALPINGOPORELLA ANNULATA

70 PETRASCULA SPP.

71 CYLINDROPORELLA IRANICA

72-73 TRIPLOPORELLA FENESTRELLA

74-75 ACROPORELLA ASSURBANIPALI

76 CAVEUTA FROLO, 1938

77 BEKHMEI WETZEL

78 ACTINOSTROMA PRASALVENSIS

79 ACTINOSTROMA LECOMPTI

80 ECHINODERMATA

81 LAMELLIBRANCHIA

82 GASTROPODA

83 OSTROCOCA

84 SPONGE SPICULES

85 OSTREA

86 CORALLA

87 RUDISTA

88 SACCOCOMA

89 ANNELIDA (SERPULA SPP)

90 BRACHIOPODA

91 NERINEA

92 AEOLISCA

93 NANNOCOCUS

94 NANNOCOCUS

95 BERTINIA

96 AMPHORELLINA

97 SALPINGELLINA

98 TINTINNOSPHELLA CADISCHIANA

99 TINTINNOSPHELLA CAMBRATICA

100 TINTINNOSPHELLA LONGA

101 TINTINNOSPHELLA OBLONGA

102 MACROPORELLA IRANICA

103 PERMOACALCULUS AMPULLACEA

104 SOLENOPORELLA

105 VERMIFORMA

106 CYCLOPOREOPHIS

107 SPIRILLINA

108 SPIRILLINA

109 SPIRILLINA

110 "PROTO-GLOBIGERINA"

111 TINTINNOSPHELLA

112 CALPIONELLITES

113 CALPIONELLA

114 CALPIONELLA

115 GLOBOSHAETIA

116 EMBRYONIC AMMONITE / APTIC / FRAGMENTS

117 STOMIOSPHAERA

118 KURUBIA

119 NODOPHTHALMIDUM

120 MANGASHTIA

121 AMMOBACULITES

122 PSEUDOCYCLAMMINA

123 AMMOBACULITES

124 KILIANINA

125 COCKINOLINA

126 CONICOSPIRILLINA

127 OPHTHALMIDUM

128 CYLINDROPORELLA

129 LITHOCODIUM

130 CAROZZELLA

131 PLANELLA

132 PRETHOCOCYRILLITHUS

133 "PELAGIC LAMELLIBRANCHS"

134 CLADOPOREPS

135 DEHORNEA

136 BURGUNDIA

137 PSEUDOCYCLAMMINA

138 AMMOBACULITES

139 AMMOBACULITES

140 TROCHOLINA

141 KILIANINA

142 PSEUDOCYCLAMMINA

143 NUBECULARIA

144 TEXTULARIDIS (?)

145 PROTOPOREOPHIS

146 PERMOACALCULUS

147 PERMOACALCULUS

148 SHUQRIA

149 MEYENDORFFINA

150 PSEUDOCYCLAMMINA

151 ORBITAMINA

152 PS. CHRYSALIDINA (DUKHANIA)

153 URAGIELLA

154 STENERIA

155 IRANICA

156 PFENDERINA

157 PFENDERINA

158 PSEUDOCYCLAMMINA

159 "PSEUDOCYCLAMMINA"

160 CAVEUTA

161 PYCNOPODIUM

162 CHARTOPHIS

163 RHAPHIDONIA

164 BOLIVINA C.F.

165 ORBITOPHRELLA

166 LITUIOSPITA

167 MUNIERIA

168 PALAEOASYCLADUS

ALBANI

ANTERIOR

PERS. AREA

ORBITOLINA / CHOFFATELLA

APTIAN - BARREMIAN

MULTIVERTEN - VALANGIANIAN (PART)

VALANGIANIAN (PART) - BERGIAN

TINTINNID ZONE

IV

III

II

I

M

K

H

SA. PIZOPPELLA

VALANGIANIAN

VALANGIANIAN

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## MEGAFOSSILS RECORDED IN THE STUDIED AREA

GENUS	SPECIES	AUTHOR	APTIAN-BARRERIAN	HAUTERIVIAN- VALANGINIAN (PART)	VALANGINIAN (PART)- BERRIASIAN	TITHONIAN	PORT- LANDIAN	*KIMMER- IDGIAN	LOWER KIMMER- IDGIAN	OXFORDIAN	CALLOVIAN	MIDDLE JURASSIC (UNDEF.)	LOWER JURASSIC (UNDEF.)
RUBIDI (UNDEF.)													
CAPRINULA	SP		---	---									
PARAHOLITES	SP		---	---									
DOUVILLICERAS	SP		---	---									
ELECTRYONIA	SP		---	---									
SPONDYLUS	SP		---	---									
NERINEA	SP		---	---									
SPITICERAS	INDICUM	(UHLIG)											
NEGOCOMITES	SP				---								
AMPULLINA	SP				---								
HETERASTER	CF COULONI	(AGASSIZ)											
HETERASTER	VERRICULATUS	FOURTAU											
HETERASTER	MUSANDAMENSIS	LEES											
SPITICERAS	SP					---							
BERRIASSELLA	SP					---	---						
STEUEROCERAS	SP					---	---						
STREMITES	AURICULATUS	(D'ORBIGNY) SPATH				---	---						
NEOLISSOCERAS	GRASIANUS					---	---						
DICERAS	SP					---	---						
TORQUATISPHINCTES	SP					---	---						
TARAMELICERAS	SP					---	---						
VIRGATOCERAS	SP					---	---						
LITHACOCERAS	SP					---	---						
LOPHA	SOLITARIA	(SOWERBY)				---	---						
SEPTIRHYNCHIA	AZAIIS	(COTTEAU)				---	---						
MACROCEPHALITES	SP					---	---						
ELIGMUS	ROLLANDI	DOUVILLÉ				---	---						
MYCEA	SP					---	---						
MEGAOON	SP					---	---						
LITHOTIS	SP					---	---						

**LEGEND**  
 RANGE OF MICROFOSSILS WITHIN THE BIOSTRATIGRAPHICAL ZONE ONLY.  
 RELATIVE ABUNDANCE AS ACCUMULATED FROM THE DIFFERENT 18 STRATIGRAPHIC SECTIONS.  
 TENTATIVE RANGE.  
 QUERIED OCCURRENCE &/OR RANGE.  
 GAV KUH SECTION.

A MICROPALAEOONTOLOGICAL STUDY OF  
THE U. JURASSIC & LOWER CRETACEOUS  
OF SOUTHERN IRAN

A GENERALISED RANGE CHART  
FOR  
MICROFOSSILS RECORDED IN THE  
KHAMI GROUP (JURASSIC - LOWER  
CRETACEOUS) OF SOUTHERN IRAN

Author: A. Golleshtaneh Encl. No. 19 Date: 1965



